

Daily System Generation Summary on Saturday

Saturday, May 20, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,071 MW
Distillate	0 MW
Total TNB	2,071 MW
Total IPP	18,617 MW
Total Co-Gen	0 MW
Total System	23,142 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,735	3.96 %
Gas	30,526	8.19 %
Total TNB	45,261	12.15 %
ST-Coal	240,578	64.57 %
LSS	5,962	1.60 %
Gas	80,974	21.73 %
Total IPP	327,514	87.91 %
Co-Gen	245	0.07 %
Total Co-Gen	245	0.07 %
Total Generation	373,020	100.12 %
PLTG	-263	-0.07 %
HVDC	723	0.19 %
Interconnection	460	0.12 %
Net Energy	372,560	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	18,407 MW
TNB Generation	3,197 MW
IPP Generation	14,207 MW
Spinning Reserve	997 MW
Maximum Demand	17,410 MW
Net Energy	372,560 MWH
Load Factor	89.16 %

Fuel Cost

Total Cost:	93,148,809.22 RM
Cost per Unit	24.94 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	980
Hydro	262
Syncon	598
Thermal	219
Total	2,059

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	35
SRDG	3
TJGS	84
Total TNB	121
CBPS	43
EMPP	259
NPRI	137
PCGP	82
PLPS	2
SPGP	90
Total IPP	613
Total Gas	734
Total Gas Required	734

Alternate Fuel Usage

Station	(mmcsfd)
Total	0

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	16288	15547	15113	14499	14149	13813	13725	13349	13171	14162	15013	15628	15665	15504	16075	16514	16726	16511	15941	16184	17353	17313	16960	16737

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 2, 2023 2:48:53 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
JMAH	U001	212	115	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0</

Daily MW Generation on Saturday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
HTRG	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
KNRG	HY01	22	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	22	22	
KNRG	HY02	25	25	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	23	23	23	23	
KNRG	HY03	20	20	20	20	20	20	20	20	20	20	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
KNYR	HY01	99	99	98	99	99	99	98	99	98	98	99	98	99	99	99	98	99	99	98	99	96	99	96	98	
KNYR	HY02	99	98	99	98	99	94	97	89	98	91	96	99	99	57	57	58	56	86	86	100	99	99	99	59	
KNYR	HY03	98	98	97	97	96	95	94	93	93	93	94	96	96	0	0	0	0	93	94	95	94	94	94	97	
LPIA	HY01	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LPIA	HY02	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	21	21	21	-1	
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	0	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	20	21	20	22	
SIHY	HY01	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	0	
SIHY	HY03	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	
TMGR	HY01	86	86	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	34	85	85	84	41	86	
TMGR	HY02	86	85	37	37	37	35	36	34	37	36	37	37	37	37	37	37	37	37	37	32	33	87	86	85	
TMGR	HY03	85	85	32	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	-1	-1	-1	-1	-1	84	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
UPIA	HY02	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	
Total Hydro		827	799	606	604	465	457	409	397	410	419	408	414	413	370	175	174	175	205	323	432	454	433	431	431	428
Total Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	12	11	12	23	22	25	27	28	22	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	8	10	16	20	24	27	29	30	9	28	31	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	15	23	27	31	33	37	41	32	42	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	14	17	19	30	32	40	29	29	41	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	14	10	21	22	26	25	20	30	26	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	14	22	25	30	35	27	33	40	42	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	13	15	23	24	29	24	23	30	15	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	22	26	31	34	39	44	34	37	27	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	10	18	29	40	56	68	77	78	77	57	66	90	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	13	21	28	33	29	36	39	23	39	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	14	18	21	25	26	28	26	30	18	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	11	26	39	46	49	63	66	75	100	100	84	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	29	28	9	
MALS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	10	18	29	27	29	29	29	29	30	29	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	9	11	11	16	21	21	32	37	44	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	15	18	20	30	39	39	62	80	97	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	13	23	33	38	53	58	53	69	80	100	91	102	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	20	26	34	40	42	46	48	32	28	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	15	26	23	28	36	37	42	43	29	

Daily MW Generation on Saturday

Station	Unit	0000		0100		0200		0300		0400		0500		0600		0700		0800		0900		1000		1100		1200		1300		1400		1500		1600		1700		1800		1900		2000		2100		2200		2300			
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	5	7	10	16	14	18	21	11	21	23	23	15	10	12	10	10	5	2	0	0	0	0	0	0	0	0	0	0	0		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	11	25	30	30	30	22	19	16	22	19	24	27	30	25	24	13	18	11	3	0	0	0	0	0	0	0	0	0	0	0	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	103	205	327	425	529	644	706	751	814	832	847	882	814	745	659	602	581	481	371	306	184	88	13	5	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	13	0	0	0	12	18	18	20	16	7	2	12	13	13	16	20	20	16	17	18	17	16	12	12	13	14	13	14	14	13	18	12	15	15	14	9	10	10	14	11	16	16	20	19	20	23	14	13		
KHTC	BLK1	-12	-9	-8	-7	-8	-6	-9	-11	-12	-10	-10	-6	-6	-8	-5	-8	-9	-6	-13	-13	-16	-18	-18	-22	-24	-25	-24	-27	-29	-29	-31	-32	-28	-34	-29	-27	-26	-26	-23	-23	-21	-22	-23	-21	-19	-21	-19			
PCUF	CUFG	7	6	5	5	4	5	5	6	6	4	7	6	5	5	6	5	5	6	7	6	6	6	6	5	5	4	5	3	6	5	5	6	5	6	5	5	6	5	6	6	4	5	6	6	6	6				
PCUF	CUFK	5	3	3	2	1	2	1	2	2	1	5	2	1	23	26	26	26	26	27	25	27	27	26	27	26	24	23	23	0	3	2	1	3	3	3	2	2	2	2	2	4	5	2	1	4	1	1	3		
Total Co-Gen		13	0	0	0	9	19	15	17	12	2	4	14	13	33	42	44	44	44	35	38	34	30	27	21	18	16	17	-10	-6	-9	-5	-11	-8	-5	-15	-12	-10	-8	-4	-5	3	6	6	1	8	11	0	3		
Total Gen		16289	15843	15521	15373	15120	14788	14513	14309	14171	14110	13812	13750	13768	13811	13401	13137	13193	13862	14186	14672	15049	15444	15667	15835	15702	15640	15507	15920	16060	16453	16596	16662	16738	16627	16535	16161	15960	15976	16196	17072	17360	17410	17339	17163	16977	16875	16761	16551		
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TIE-HVDC		30	29	31	31	31	31	29	29	29	29	29	32	30	31	31	31	31	31	31	31	32	32	31	31	31	31	29	31	29	28	30	30	32	29	30	30	29	29	29	32	29	30	31	29	29	29	29			
TIE-PLTG		-28	-42	-56	-25	-23	-15	-15	-4	-8	8	-30	-14	12	22	21	9	-9	-9	-7	-28	4	10	8	8	6	-9	-28	-17	-44	23	52	12	-20	-45	-6	-32	-11	-18	-19	-17	-15	-24	-29	-5	-15	-12	-20	-6	-31	
Interconnection		1	-13	-26	6	7	15	14	25	22	38	-1	16	43	52	52	39	22	22	24	3	36	42	39	39	37	20	3	12	-15	51	82	41	12	-16	24	-2	19	11	12	14	7	0	26	16	17	9	24	-2		
System Total		16288	15856	15547	15367	15113	14773	14499	14284	14149	14072	13813	13734	13725	13759	13349	13098	13171	13840	14162	14669	15013	15402	15628	15796	15665	15620	15504	15908	16075	16402	16514	16621	16726	16643	16511	16163	15941	15965	16184	17058	17353	17410	17313	17147	16960	16866	16737	16553		
SRev ST-Coal		150	178	256	187	170	164	165	179	272	270	345	371	358	359	351	545	576	376	375	375	217	225	218	230	218	236	249	228	240	181	182	148	189	151	165	167	179	140	157	169	163	179	174	181	183	158	181	177		
SRev CCGT-Gas		956	1243	1077	1172	1312	1652	1874	2054	2107	2169	2383	2435	2428	2361	2593	2647	2545	2344	2252	1987	1879	1566	1379	1246	1445	1514	1648	1261	1066	445	220	161	209	272	235	467	589	562	363	218	242	190	255	269	290	278	291	307		
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	37	37	0	0	0	0		
SRev Co-Gen		24	18	16	14	16	12	18	22	24	20	12	12	16	10	16	18	12	26	26	32	36	36	44	48	50	48	54	58	58	58	62	64	56	68	58	54	52	52	46	46	42	44	46	42	38	42	38			
Syncon		651	651	739	739	827	827	827	827	827	827	827	827	827	827	928	928	928	928	827	827	676	827	827	827	827	827	827	827	827	827	651	588	588	588	588	588	588	500	187	0	0	187	187	525	525	525				
Hydro		146	147	225	227	98	106	106	118	105	247	107	101	102	145	139	140	139	109	117	108	237	107	109	109	112	109	109	108	107	106	244	293	458	467	462	551	593	549	657	521	594	582	560	523	554	358	300	264		
S.Reserve Total		1927	2237	2313	2339	2423	2761	2990	3200	3335	3382	3682	3746	3727	3708	4021	4276	4206	3769	3597	3323	3041	2761	2569	2456	2650	2736	2881	2478	2298	1617	1355	1252	1508	1534	1518	1831	2003	1891	1729	1141	1048	997	1070	1243	1256	1357	1339	1311		